BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work

Modified Estimate Augmentation of Water Supply throught Borewells, Network of Pipelines and ground water Recharges facilities in areas layouts of Shettyhalli Village. Abbigere Village & Chikkasandra village in W no 12

Estimated Cost

Rs :- 210.00 Lakh

JOB Code:- 012-23-000002

Office of the
Executive Engineer
Dasarahalli Division
BBMP, BENGALURU

NAME OF WORK :- Augmentation of Water Supply throught Borewells , Network of Pipelines ground water Recharges facilities in areas layouts of Shettyhalli Village. Abbigere Village & Chikkasandra village in W no 12

CODE :- 012-23-000002 **ESTIMATE COST :-210.00 Lakhs**

Description	Unit	No	Measurements			Qty	Rate	Amount
			Length	Width	Depth			
Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre inconsolidated formation for proper seating of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other information required including transportation of instrument and accesories to work site,engaging technical personal and labour required etc.,								
	No	18	1			18.00		
						18.00	3881.04	**69858.72**
Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.								
Ch 0.00 to 50.00	Rmt	18	50.00			900.00	357.41	**321669.00**
Ch 50.00 to 100.00	Rmt	18	50.00			900.00	455.26	**409734.00**
Ch 100.00 to 150.00	Rmt	18	50.00			900.00	469.68	**422712.00**
Ch 150.00 to 200.00	Rmt	18	50.00			900.00	552.08	**496872.00**
Ch 200.00 to 250.00	Rmt	18	50.00			900.00	653.02	**587718.00**
Ch 250.00 to 300.00	Rmt	18	38.00			684.00	721.00	**493164.00**
Ch 300.00 to 350.00	Rmt	18	5.00			90.00	849.75	**76477.50**
9 Providing and fixing unplasticised PVC pipes with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. -do- with 250mm outer dia (Casing Pipe)								
	Rmt	18	25.00			450.00		
						450.00	2980.82	**1341369.00**
10 Supply of ISI Mark 175mm nominal Bore, Plain end steel casing Pipe-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty.								
	Rmt	18	60.00			1080.00		
						1080.00	1364.75	**1473930.00**

E.E. (D.D.)

Sl No	Description	Unit	No	Measurements			Qty	Rate	Amount
				Length	Width	Depth			
1	Providing 175mm Dia M.S. Collar								
		No	18	10.00			180.00		
							180.00	154.50	**27810.00**
	Providing 175mm dia Borewell Cap & Clamp Set								
		NO	18	1.00			18.00		
							18.00	1854.00	**33372.00**
	Submersible Three phase (6 inch/150mm) and other equipments pumps 15 HP/11KW (35 stage)								
		NO	18	1.00			18.00		
							18.00	69755.72	**1255602.96**
4	Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. G.I. Pipe 50mm 'B' Class								
		Rmt	18	275.00			4950.00		
							4950.00	453.10	**2242845.00**
5	Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX6.0 sq.mm								
		Rmt	18	572.00			10296.00		
							10296.00	211.15	**2174000.40**
16	Providing and fixing in position 50mm Nominal bore non- return Valve verticle type of approved make including cost of all materials, labour HOM of equipment with all lead complete as per Specification								
		NO	18	1.00			18.00		
							18.00	1965.24	**35374.32**
17	Spplying and fixing 50mm GI Union.								
		NO	18	1.00			18.00		
							18.00	230.41	**4147.38**
18	Spplying and fixing 50mm GI Elbow								
		NO	18	1.00			18.00		
							18.00	115.15	**2072.70**
19	Spplying and fixing 50mm GI Nipple.								
		NO	18	1.00			18.00		
							18.00	107.43	**1933.74**
20	Spplying and fixing 50mm GI Hose collers.								
		Rmt	18	47.00			846.00		
							846.00	106.09	**89752.14**
21	Fabricating ,Supplying and mounting MS Box made out of 16swg suitable for floor mounting , fully weather proof with provision for better dissipation provided with hinged front cover,equipped with tamper proof locking arrengements with suitable size clamps,if necessary cable entry gland and box								
		NO	18	1.00			18.00		
							18.00	16922.90	**304612.20**

E.E. (D.D.)

Sl No	Description	Unit	No	Measurements			Qty	Rate	Amount
				Length	Width	Depth			
22	Supplying and fixing angle iron frame work Fabricated out of MS angle iron and MS flat with bolts nuts washers,etc and painted with two coats of Red oxide and pants								
		NO	18	1.00			18.00		
							18.00	348.14	**6266.52**
23	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,								
		NO	18	1.00			18.00		
							18.00	300.76	**5413.68**
24	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63Amps TPN								
		NO	18	1.00			18.00		
							18.00	2468.91	**44440.38**
25	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V up to 300mA sensitivity on existing wood/panel board.								
		NO	18	1.00			18.00		
							18.00	3296.00	**59328.00**
26	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 63 amps								
		NO	18	1.00			18.00		
							18.00	3584.40	**64519.20**
27	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440v A.C. 50 Hz 12/24v D.C.								
		NO	18	1.00			18.00		
							18.00	442.90	**7972.20**
28	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. Above 12.5 HP upto 25 HP								
		NO	18	1.00			18.00		
							18.00	8240.00	**148320.00**
29	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities								
		NO	18	1.00			18.00		
							18.00	767.35	**13812.30**
30	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm								
		NO	18	20.00			360.00		
							360.00	46.35	**16686.00**

E.E. (D.D.)

Sl No	Description	Unit	No	Measurements			Qty	Rate	Amount
				Length	Width	Depth			
31	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of ...ting machinery.								
		No	18	4.00			72.00		
							72.00	412.00	**29664.00**
32	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia								
		No	18	1.00			18.00		
							18.00	3089.69	**55614.42**
33	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete hard soil								
		Rmt	18	10.00			180.00		
							180.00	105.06	**18910.80**
34	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm								
		Rmt	18	11.00			198.00		
							198.00	154.50	**30591.00**
35	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing								
		Rmt	18	20.00			360.00		
							360.00	12.24	**4406.40**
36	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm								
		Rmt	18	2.83			51.00		
							51.00	345.05	**17598.59**
37	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.								
		No	18	1.00			18.00		
							18.00	267.80	**4820.40**
38	Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps								
		No	18	3.00			54.00		
							54.00	233.81	**12625.74**
39	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								

EE. (D.D.)

Sl No	Description	Unit	No	Measurements			Qty	Rate	Amount
				Length	Width	Depth			
	For Pipe Line	Cum	18	46.30	0.90	0.60	450.04		
	For RO Plant		2	20.00	0.90	0.90	32.40		
							482.44	490.22	236499.78
40	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal OD pipes								
	For Pipe Line	Rmt	18	52.35			942.30		
	For RO Plant		2	20.00			40.00		
							982.30	471.66	463311.62
41	Making connection of G.I.distribution branch with G.I.main of 25mm to 40mm. Nominal bore, including cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of works,testing and HOM of equipments complete as per specifications.								
		No	18	5.55			99.90		
							99.90	527.34	52681.27
42	Stone dust / Grit 4.75 mm to 0.075 mm								
	For Pipe Line	Cum	18	46.30	0.90	0.20	150.01		
	For RO Plant		2	20.00	0.90	0.15	5.40		
							155.41	1091.80	169678.82
43	KSRB 2-4 : Refilling available around earth pipe lines,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.								
	For Pipe Line	Cum	18	46.30	0.90	0.60	450.04		
	For RO Plant		2	20.00	0.90	0.90	32.40		
							482.44		
			60% of of Total Qty				**289.46**	132.11	38240.77
44	Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1								
	For Pipe Line	Cum	18	46.30	0.90	0.45	337.53		
	For RO Plant		2	20.00	0.90	0.45	16.20		
							353.73		
			40% of Total Qty				**141.49**	100.90	14276.42
45	KSRB 2-4 : Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications.								
		No	18	3.00			54.00		
							54.00	1898.64	102526.56
46	KSRB13-6.2-1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.								
		No	18	6.00			108.00		
							108.00	153.94	16625.52

E.E. (D.D.)

Sl No	Description	Unit	No	Measurements			Qty	Rate	Amount
				Length	Width	Depth			
47	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	For Pipe Line	Cum	18	46.30	0.90	0.20	150.01		
	For RO Plant		2	20.00	0.90	0.30	10.80		
							160.81	2061.32	**331484.99**
48	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision								
	Asphalt 70-75% Road Main Line	Sqm	18	33.34	0.90		540.04		
							540.04	34.94	**18869.11**
49	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen								
		Cum	18	33.34	0.90	0.05	27.00		
							27.00	8802.90	**237697.31**
50	KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.25 kg per sqm on the existing prepared bituminous surface cleaned with mechanical broom. (primed surface) complete as per specifications. Clause 503 of MORTH V revision								
		Sqm	18	33.34	0.90		540.04		
							540.04	10.92	**5897.27**
51	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision - do - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen								
		Cum	18	33.34	0.90	0.04	21.60		
							21.60	10301.13	**222522.21**
52	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5								

E.E. (D.D.)

	Description	Unit	No	Measurements			Qty	Rate	Amount
				Length	Width	Depth			
	Chambers	Cum	18	1.60	1.60	1.20	55.30		
							55.30	490.22	**27107.21**
53	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Chambers	Cum	18	1.50	1.50	0.15	6.08		
	For CC road 25-30%		18	12.96	0.90	0.12	25.20		174240.96
							31.28	5570.36	**174224.24**
54	Providing and laying in position reinforced cement concrete of Design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed- 2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials,								
	Raft	Cum	18	1.50	1.50	0.15	6.08		
	Wall	4	18	1.50	0.20	0.90	19.44		
	Cover Slab sides	0.5	18	6.00	0.60	0.30	9.72		
	CC Road Main Line		18	12.96	0.90	0.15	31.50		388233.96
							66.74	5817.11	**388219.49**
55	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string								
	Wall	8	18	1.50		0.90	194.40		
		Sqm					**194.40**	390.86	**75983.18**
56	Providing and fixing RCC precast cover slab of 250 mm thick for Chamber in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including formwork, lift charges, curing and concrete finished surfaces on both sides etc., complete as per drawing and directions of engineer-in-charge.Data rate								
		Sqm	18	1.50	1.50		40.50		
							40.50	5580.54	**226011.87**
57	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT								
		No I	No/B	L	TL	W/D	TW		
	Footing Mat 10mm both way	4	28	2.25	252.00	0.62	156.24		
	Columns	4	6	6.25	150.00	0.90	135.00		
	Rings	4	25	1.50	150.00	0.40	60.00		
	Plinth Beam allround	1	6	21.20	127.20	0.62	78.86		
	Rings	1	120	1.50	180.00	0.40	72.00		
	Lintel Beam allround	1	6	17.20	103.20	0.62	63.98		
	Rings	1	82	1.45	118.90	0.40	47.56		

E.E. (D.D.)

Description	Unit	No	Measurements			Qty	Rate	Amount
			Length	Width	Depth			
		For 1 Ro Plant				613.65		
		For 2 Ro Plants				1227.30		
bers U Bar	19	14	3.00	798.00	0.62	494.76		
nst	19	5	5.00	475.00	0.40	190.00		
						1912.06		
	MT					1.91	95441.88	182490.22
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per								
For Levelling lowering	Cum	2	5.00	4.00	0.30	12.00		
Footings		8	1.20	1.20	1.20	13.82		
For ssm surface		4	4.30	0.60	0.75	7.74		
		4	3.80	0.60	0.75	6.84		
Front side		2	4.30	0.60	0.22	1.14		
						41.54	499.47	20747.58
Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement 180kgs,with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @o.57 cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost all materials, labour, HOM of								
Footings		4	1.20	1.20	0.15	0.86		
Walls	Cum	4	4.30	0.75	0.15	1.94		
		4	3.80	0.75	0.15	1.71		
		2	4.30	1.00	0.15	1.29		
						5.80	5675.46	32911.99
Providing and constructing granite/trap/basalt size stone masonry in basement with cement mortar 1: 6 stone chistel dressed in courses not less than 15 cms high bond stones at two m apart in each course including cost of materials, labour, curing complete as per specifications								
Walls	Cum	4	4.30	0.60	1.00	10.32		
		4	3.80	0.60	1.00	9.12		
		2	4.30	0.90	0.60	4.64		
Front						24.08	6099.29	146895.30
Providing and laying in position plain cement concret of mix 1:2:4 with cement @ 240kgs with 20mm and down size graded granite metal coarse agregates @ 0.69cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exeeding 15 cm thick well compacted in foundation and plinth and cills, including cost all materilas, labour, HOM of machinery, curing complete as per specifications								
	Cum	4	4.30	0.6	0.10	1.03		
		4	3.80	0.6	0.10	0.91		
For ssm surface		2	4.30	0.9	0.10	0.77		
Front side						2.72	6031.43	16393.43

EXECUTIVE ENGINEER
Bruhat Bengaluru Mahanagara Palike
Dasarahalli Division, Bengaluru-73.

Description	Unit	No	Measurements			Qty	Rate	Amount
			Length	Width	Depth			
Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 conforming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.								
For ssm surface		4	4.30		3.00	51.60		
		2	3.50		3.00	21.00		
	Sqm	4	0.25		3.00	3.00		
Parapet wall		4	4.90		0.60	11.76		
		4	3.50		0.60	8.40		
						95.76	1060.12	**101517.09**
Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed 2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks anchor blocks plain window cills fillets etc including cost of all								
Footings								
Columns								
Plinth Beam over SSM	Cum	4	4.30	0.2	0.20	0.69		
		4	3.50	0.2	0.20	0.56		
For Lintel		4	4.30	0.2	0.15	0.52		
		4	3.50	0.2	0.15	0.42		
For Slab		2	4.90	3.8	0.15	5.59		
						7.77	6724.46	**52249.05**
KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS								
	No I	No/B	L	TL	W/D	TW		
Roof Beam allround	1	6	17.20	103.20	1.58	163.06		
Rings	1	106	1.25	132.82	0.40	53.13		
Roof Slab	1	30	3.50	104.99	0.90	94.49		
	1	23	4.30	98.90	0.40	39.56		
		For 1 Ro Plant				**350.23**		
	MT	**For 2 Ro Plants**				**700.47**		68063.86
						0.700	97242.67	68115.13
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundation s, footings ,bases of columns for mass concreet including cost of all materials, labour complete as per specifications								
Plinth Beam over SSM	Sqm	4	4.30		0.20	3.44		
		4	3.50		0.20	2.80		
For Lintel		4	4.30		0.15	2.58		
		4	3.50		0.15	2.10		

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	Description	Unit	No	Measurements			Qty	Rate	Amount
				Length	Width	Depth			
							10.92	287.00	3134.04
	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all								
	For Slab		2	4.00	3.5		28.00		
		Sqm					**28.00**	489.46	13704.88
	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever								
	For Slab		2	4.00	3.5		28.00		
	Front side	Sqm	2	4.30	0.9		7.74		
							35.74	1370.48	48980.96
	Providing and fixing colour glazed tiles of size 300mmx600mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing,								
	For Wall		4	4.00		1.20	19.20		
			2	3.50		1.20	8.40		
			4	0.25		1.20	1.20		
	Front side	Sqm	2	1.30		0.50	1.30		
							30.10	1348.23	40581.72
	Providing 18mm thick cement plaster in single coat with cement mortar 1:3 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials,								
	For Wall		4	4.30		3.60	61.92		
		Sqm	2	3.50		3.60	25.20		
			4	0.25		3.00	3.00		
							90.12	307.02	27668.64
70	KSRB15-3 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
		Sqm	4	4.00		3.00	48.00		
			2	3.50		3.00	21.00		
			4	0.25		3.00	3.00		
							72.00	260.30	18741.60
71	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials,								
		Sqm	4	4.30		3.60	61.92		
			2	3.80		3.60	27.36		
			4	0.25		3.00	3.00		
							92.28	113.46	10470.09
72	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drpos and other foreign matter including preparing the surface even asn sand paper								

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Dasarahalli Division, Bengaluru-73.

Description	Unit	No	Measurements			Qty	Rate	Amount
			Length	Width	Depth			
Qty Vide Item No 70								
	Sqm					72.00	122.36	8809.92
						72.00	112.36	**8089.92**
RSR 7.5 : Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m. Specification								
Rolling Shutters	Sqm	2	3.00		2.10	12.60		
						12.60	2900.03	**36540.38**
Supplying and installation of 2000 LPH RO drinking water treatment plant comprising of raw water storage tank, anlt scaling dosing system with pump and tank sand filter activated carbonfilter, high pressure pump R.O membranes, R.O pressure tubes, skid house the complete R.O palnte, control panel, chemical cleaning tank, ph dosing system with pump and dosing tank product water storage UV sterilizer, interconnection piping whithin SKID,complete instrumentation with necessary gagues and flow indicator as required in the plante with PH meter etc..								
RO Plant	No	2	1.00			2.00		
						2.00	669500.00	**1339000.00**
							16737548.18 **Sub TOTAL-1**	**17376106.35**
							420000.00 DPR and PMC Charges 2%	420000.00
							Sub TOTAL-2	**17796106.35**
							3127652.67 GST 18%	3203299.14
							76499.15 Miscelleneous & Rounding off	594.51
							GRAND TOTAL	**21000000.00**

Asst. Engineer
Ward 12

Asst.Executive Engineer
Shettyhalli Sub Division

Technically Sanctioned for Rs 17796 Lakhs/-
Rs. In words Rs. One crore seventy seven Lakhs ninety six thousand one Hundred & six only
Under P-3803 [15th finance]
Job No. 012-23-000002
Registered with 43/2022-23
to comp
No. CE/02/TS/43/2022-23 28/03/2023
AE/JE

EXECUTIVE ENGINEER
Bruhat Bengaluru Mahanagara Palike
Dasarahalli Division, Bengaluru-73.